

Title (en)

The process for the preparation of 3,3',4,4'-biphenyltetracarboxylic acid and its derivatives.

Title (de)

Verfahren zur Herstellung von 3,3',4,4'-Biphenylcarbonsäure und ihren Derivaten.

Title (fr)

Procédé de préparation d'acide 3,3',4,4'-biphényltétracarboxylique et de ses dérivés.

Publication

EP 0363922 A2 19900418 (EN)

Application

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Priority

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Abstract (en)

Biphenyl tetracarboxylic acid esters and derivatives thereof are prepared by the coupling reaction of 4-halogen substituted o-benzenedicarboxylic acid ester, carried out in an aprotic polar solvent in the presence of a pre-prepared triphenylphosphine-nickel chloride or trialkylphosphine-nickel chloride catalyst, zinc powder as the reducing agent, and an alkali metal halide promoting agent. The ester may be hydrolyzed in basic solution to afford the corresponding acid. The acid may be heated or boiled with acetic anhydride to afford the biphenyl dianhydride.

IPC 1-7

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IPC 8 full level

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